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ROLE OF SIRA VYADHA- AJMODADI VATAKA IN THE MANAGEMENT OF GRIDHRASI (SCIATICA)

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ABSTRACT

In various Samhita of Ayurveda, about Gridhrasi there are lots of references and it is elaborated as a separate disease with specific management. The disease Gridhrasi is commonly seen in society as a prominent problem. In this condition patient become incapable to do his daily routine work because of severe pain from kati pradesha to Padaanguli with cardinal symptoms like Sakthiakshepannigraheet. The Present clinical trial was planned to develop an Ayurvedic regimen for the management of Gridhrasi by taking Samshodhana karma along with Samshana chikitsa. In the chikitsa sutra of Gridhrasi Acharya Sushruta, Charak, Vagbhatta, Bhela have mentioned Siravyadh. The present study was taken up with the objective of evaluating the efficacy of Siravyadha and Ajmodadi Vatak in the management of pain in Gridhrasi. The duration of tial was three Months and patient were examined monthly. Total 45 patients were registered for the clinical trial which were divided in to three groups, 15 in each groups. Group A were treated with Siravyadh, Group B were treated with Ajmodadi Vatak and Group C were treated with Combined therepy. The result showed that there was significant reduction in the symptomatic parameters in combined therepy, when compared to the group A and Group B.

Keyword: Gridhrasi, Siravyadh, Ajmodadi Vatak. S.L.R. etc.

INTRODUCTION

Ayurveda is simple practical science of life; its principles are universally applicable to each individual for daily existence. Each and every human being desires to live happy and comfortable life, but it is not possible owing to multifactors related with changing life style, environmental factors etc. As per data available 80% of population in modern industrial society experience back pain at sometime during their life, fortunately in some of these it subsides within a month. But unfortunately, as many as 70% of this pain recurs, out of these many of

them converts into Sciatica patients as time passes. The disease *Gridhrasi* (Sciatica) is commonly seen in society as a prominent problem; in this condition patient become incapable to do his daily routine work because of severe pain from *Kati* (*lumbar*) *pradesha* to *Padanguli* (foot). In reference to sciatica treatment there is nozzz need to state that in other medical sciences only the symptomatic management and also few surgical procedures with interest of adverse reaction. In various samhita of Ayurveda, about *Gridhrasi* there are lots of references and it is elaborated as a separate disease with specific management. The disease, *Gridhrasi* classified into two categories viz. *Samanyaja* and *Nanatmaja*. Nanatmaja diseases are those who are resulting to the vitiation of one dosha only.

Charakacharya quoted Gridhrasi in Vataja, Nanatmaja vyadhi and also enumerated under Mahagada that indicates difficulty to cure it. It is characterized by its distinct pain emerging from Sphika Pradesha and goes towards the Parshni Pratyangulina of the affected side. In all ayurvedic texts, there is no direct reference regarding Nidana and chikitsa of Gridhrasi but as Gridhrasi is mentioned under Nanatmaja Vata vyadhi. So here general Vataprakopaka hetu are to be considered. And Charaka and Madhava mentioned symptoms of Gridhrasi like Bhaktadvesha, Gaurva, Tandra, Aruchi, Mukhapraseka in Vata-kaphaja type of Gridhrasi. So indirectly Kapha prakopaka nidana and Agnimandya hetu are to be considered. On the basis of symptoms of Gridhrasi can be equated with the disease Sciatica in parlance. Sciatica is the term given to pain down the leg, which is caused by irritation of the main nerve into legs, sciatica nerve. This pain tends to be caused where the nerve passed through an emerged from the lower bone of spine i.e. lumber vertebrae. In Ayurvedic texts, there are various method used as a line of treatment, some of which are effective, simple, safe and cheap for the patient e.g. Siravedha, Agnikarma, Basti chikitsa, Snehana, Swedana On the other hand in Ayurveda various types of management regarding Gridhrasi (Sciatica) are indicated e.g. Snehana, Swedana, Basti Chikitsa, Shamana yoga, Siravedha. But in these chikitsa, did not get Siddha Hastata. Keeping this point in mind as per Sushrutacharya's principles, the study was designed as a comparative study to assess the efficacy of therapeutical procedure alone and comparatively. The present study entitled "Role of Sira vyadha - Ajmodadi vataka in the management of Gridhrasi (Sciatica)" is planned and conducted to understand the effect of Siravyadha and Ajmodadi vataka alone and combined therapy in Gridhrasi. In present study under literary section part all the scattered description about Gridhrasi, Siravvyadha and Ajmodadi vati was prepared and used in systemic manner. In clinical study, the effect of Siravyadha and Ajmodadi vati has been assessed. This study was carried out on total 45 patients. The subject has been divided in to three groups. Group A (Siravyadh), Group B (Ajmodadi vati) and Group C was taken combined therapy. The obtained data was then subjected to various stastistical analysis.

MATERIALS & METHOD

Total 45 patients were registered for the clinical trial which were divided in to three groups, 15 in each group, 'A', 'B' and 'C'.

In Group A (Sira Vyadha): The patient of this group will be treated with sira vyadha. In Group B (Ajmodadi Vati): In this group, Ajmodadi vati was given 500 mg/BD with lukewarm water for 30 days.

In Group C (Combined Therapy): In this group, both the therapies were given. **Consent:** A written and informed consent form was signed by the subject before enrolling them for research work.

IEC Approval: Synopsis was approved by the Institutional ethical committee of V. Y.D.S. Ayurveda Mahavidyalaya, Khurja for research on Human.

Proforma: The patients were assessed on the basis of prepared proforma that include all the subjective parameters, objective parameters, investigatory parameters to record the details of an individuals. For the present work entitled "ROLE OF SIRA VYADHA- AJMODADI VATAKA IN THE MANAGEMENT OF GRIDHRASI (SCIATICA) has been conducted under two section: The present study is comprised of the following points:-

• Selection of patients, Laboratory investigations, Grouping of patients, Administration of trail regimen,

Parameters for the assessment of result

The entire study consists - Conceptual Contrive and Clinical Contrive

- 1) Conceptual Contrive: In this section, detailed study of the disease has been carried out on Ayurvedic and modern point of view. Detailed review of the selected procedure under trial along with drug used has been incorporated.
- 2) Clinical Contrive: The study was exclusively based on clinical trial. A detailed research proforma was prepared to observe the patient's history as well the disease pathology.

The patients attending the O.P.D. & I.P.D. of department of Shalya- VYDS Khurja were selected irrespective of their age, sex, religion etc.

Criteria of Selection of Patient

Patients were diagnosed mainly on the basis of signs and symptoms available in Ayurved and modern medicine.

- Ruka, Toda, Stambha, Spandana, sakthanakshepananigrahaniyat
- S.L.R. test, laseuge sign, sitting test in affected leg for diagnosis as well as prognosis of the treatment, walking time and X-ray (A/P view, lateral view of lumbar spine) and routine hematological and other useful test were done to exclude another pathogenesis.

Criteria For the Exclusion

The patient with – Pregnancy, Tuberculosis, Uncontrolled Diabetes mellitus. Hypertension, Vertebral disorder patient.

Management After diagnosis of the patients were randomly categorized into three groups as given below. Total 45 patients were registered for the clinical trial which were divided in to three groups, 15 in each group, 'A', 'B' and 'C'.

Group A (Sira Vyadha): The patient of this group will be treated with sira vyadha.

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Group B (Ajmodadi Vati): In this group, Ajmodadi vati was given 500 mg/BD with lukewarm water for 30 days.

Group C (Combined Therapy): In this group, both the therapies were given.

Criteria For Assessment:

The improvement in the patient was assessed mainly on the basis of relief in the cardinal signs and symptoms of the disease. To assess the effect of therapy objectively, all the signs and symptoms were given scoring depending upon their severity as below:

	No	Mild	Moderate	Severe
Lakshana				
Ruka	0	1	2	3
Stambha	0	1	2	3
Toda	0	1	2	3
Spandana	0 0 1		2	3
Aruchi	0	1	2	3
Tandra	0	1	2	3
Gaurava	0	1	2	3
S.L.R. Test	0	1	2	3
Shotha	0	1	2	3
Reflex	0	1	2	3

Walking Time:

25 feet distance with patient's maximum possible speed of walking and time is recorded in second by stop watch B.T. & A.T.

Criteria For Assessing the Total Effect:

The result of patient clinical trial was grouped as follows-

- Arogya (Relieved)
- Kinchit Arogya (Improved)
 - (1) More improved
 - (2) Less improved
- Anarogya (Not improved)
- Aarogya (Relived) This was decided on the following points-
- (a) Patients get more than 80% or complete relief in the initial sign and symptoms along with positive improvement in health.
- No recurrence of disease up to follow up period. (b)

- (c) Improvement in radiological finding.
- * Kinchit Aarogya (Improved) This was divided into two groups

(1) **More Improved-**

This was decided on the basis of 50%-80% relief in initial sign and symptoms.

There may or may not be recurrence of disease.

Improvement in radiological finding.

(2) Less improved-

When patient got less than 50% relief in initial sign and symptoms.

There may or may not be recurrence of disease.

No improvement in radiological finding.

* **Anarogya** (Not Improved)

When there is no significant change in symptomatology and in radiological findings without drug to assess the condition of patients and observe the relapse (if any)

OBSERVATIONS & RESULTS

Table – 1: Distribution of Patients according to Age.

Age Group	Group A		Group B		Group C	
rige Gloup	No.	%	No.	%	No.	%
< 30 yr	3	20.0%	3	20.0%	1	6.7%
30 - 39 yr	6	40.0%	4	26.7%	4	26.7%
40 - 49 yr	2	13.3%	6	40.0%	4	26.7%
>= 50 yr	4	26.7%	2	13.3%	6	40.0%

Table 1 represent the no. of patient in each age group. All the registered patients were in a age group with minimum of 18 years and maximum 60 years. According to age, they were divided into four groups. 20.0% patients of group A, 20.0% patients of group B and 6.7% patients of group C are under age group of 30 yrs. 40.0% patients of group A, 26.7% patients of group B and 26.7% patients of group C are under age group of 30-39 yrs. 13.3% patients of group A, 40.0% patients of group B and 26.7% patients of group C are under age group of 40-49 yrs. 26.7% patients of group A, 13.3% patients of group B and 40.0% patients of group C are under age group of >=50 yrs.

Table – 2: Distribution of Patients according to Prakriti

Prakriti	Group A		Group B		Group C	
	No.	%	No.	%	No.	%
PK	3	20.0%	4	26.7%	3	20.0%

VK	9	60.0%	10	66.7%	10	66.7%
VP	3	20.0%	1	6.7%	2	13.3%

Table 2 represent the Prakriti of patients among groups. In group B and group C both having maximum (66.7%) patients with V-K prakriti, while 60.0% subjects in group A. Patients having P-K prakriti were 20.0% in group A, 26.7% in group B and 20.0% in group C. while patients with V-P prakriti are 20.0% in group A, 6.7% in group B and 13.3% in group C. The majority of patients were in V-K prakriti 66.7% in group B and group C.

Table – 3: Distribution of Patients according to Vayamashakti

Vayamashakti	Group A		Group B		Group C	
	No.	%	No.	%	No.	%
Avar	12	80.0%	10	66.7%	11	73.3%
Madhyam	3	20.0%	5	33.3%	4	26.7%
Pravar	0	0.0%	0	0.0%	0	0.0%

Table no. 3 revealed the vyayam shakti of patients among groups. In group A majority of the patients were having avar vyayamshakti i.e. 80.0% followed by 20.0% of madhyam vyayamshakti and with nil having pravar vyayamsakti in group A, B and C. maximum patients were having avar vyayam shakti in group A. followed by 73.3% avar vyayam shakti in group C and 66.7% in avar vyayam shakti in group B. whereas 33.3% patients of group B were having madhyam vyayam shakti followed by 26.7% patients of group C with madhyam vyayam shakti

RESULTS

Table – 4: Intergroup Comparisons of Various parameters at Various Time of Study Period

Parameter	Time	Group A Group B		Group C		Kruskal Wallis			
								Test	
		Mean	SD	Mean	SD	Mean	SD	Chi-	p-value
								Square	
Ruka	BT	2.80	0.41	2.87	0.35	2.33	0.82	5.60	.061
	1 st	2.33	0.62	2.20	0.41	1.67	0.82	7.16	.028
	month								

	2 nd	2.00	0.38	2.07	0.59	1.20	0.77	13.38	.001
	month								
	3 rd	1.20	0.68	1.53	0.83	0.53	0.64	12.45	.002
	month								
	AT	1.20	0.68	1.53	0.83	0.53	0.64	12.45	.002
Stambha	BT	2.67	0.90	3.07	0.59	2.33	0.82	7.16	.028
	1 st	2.13	0.74	2.40	0.51	1.67	0.82	6.76	.034
	month								
	2 nd	1.73	0.80	1.73	0.70	1.07	0.70	8.09	.017
	month								
	3 rd	1.00	1.00	1.33	0.82	0.47	0.74	7.86	.020
	month					D			
	AT	1.00	1.00	1.33	0.82	0.47	0.74	7.86	.020
Toda	BT	2.80	0.77	3.07	0.46	2.07	0.80	13.36	.001
	1 st	1.93	0.80	2.27	0.46	1.40	0.74	11.07	.004
	month						.//		
	2 nd	1.53	1.06	1.53	0.74	1.07	0.59	2.67	.263
	month								
	3 rd	0.93	1.03	1.33	0.90	0.73	0.70	3.29	.193
	month								
	AT	0.93	1.03	1.33	0.90	0.73	0.70	3.29	.193
Spandan	BT	2.20	1.26	2.93	0.59	1.07	1.28	14.29	.001
	1 st	1.67	1.18	2.20	0.56	0.93	1.03	10.35	.006
	month								
	2 nd	1.20	1.08	1.87	0.74	0.73	0.70	10.73	.005
	month								
	3 rd	1.07	0.96	1.33	0.90	0.47	0.74	7.48	.024
	month								
	AT	1.07	0.96	1.33	0.90	0.47	0.74	7.48	.024
Aruchi	BT	2.33	0.72	2.80	0.41	1.33	1.11	15.45	.000
	1 st	1.80	0.86	2.20	0.41	0.93	0.70	17.61	.000

	month								
	2 nd	1.27	0.80	1.80	0.68	0.73	0.70	12.38	.002
	month								
	3 rd	0.93	1.03	1.27	0.88	0.33	0.62	9.02	.011
	month								
	AT	0.93	1.03	1.27	0.88	0.33	0.62	9.02	.011
Tandra	BT	2.60	0.63	2.87	0.35	2.13	0.74	9.66	.008
	1 st	1.87	0.64	2.13	0.35	1.33	0.49	14.73	.001
	month								
	2 nd	1.53	0.64	1.53	0.74	0.93	0.59	7.02	.030
	month								
	3 rd	1.00	1.00	1.07	1.03	0.27	0.46	6.92	.031
	month								
	AT	1.00	1.00	1.07	1.03	0.27	0.46	6.92	.031
Gaurav	BT	2.07	0.88	2.73	0.46	1.40	1.12	12.42	.002
	1 st	1.67	0.82	2.13	0.35	0.93	0.70	17.65	.000
	month								
	2 nd	1.20	0.94	1.73	0.70	0.87	0.64	8.24	.016
	month								
	3 rd	0.87	1.06	1.20	0.86	0.33	0.62	8.30	.016
	month								
	AT	0.87	1.06	1.20	0.86	0.33	0.62	8.30	.016
Sotha	BT	2.07	0.80	2.67	0.49	1.53	0.92	12.47	.002
	1 st	1.60	0.83	2.20	0.68	1.13	0.74	12.51	.002
	month								
	2 nd	1.27	0.88	1.87	0.64	0.80	0.56	13.58	.001
	month								
	3 rd	0.87	0.99	1.33	0.90	0.53	0.64	6.14	.046
	month								
	AT	0.87	0.99	1.33	0.90	0.53	0.64	6.14	.046
S.L.R Test	BT	2.87	0.74	2.93	0.59	2.13	0.74	9.12	.010

	1 st	2.07	0.80	2.27	0.59	1.20	0.68	13.96	.001
	month								
	2 nd	1.47	0.92	1.60	0.74	0.87	0.64	6.78	.034
	month								
	3 rd	1.00	1.00	1.13	0.99	0.27	0.46	8.07	.018
	month								
	AT	1.00	1.00	1.13	0.99	0.27	0.46	8.07	.018
Reflex	BT	2.20	0.86	2.73	0.46	1.33	1.11	13.24	.001
	1st	1.67	0.72	2.07	0.59	0.87	0.74	15.60	.000
	month								
	2nd	1.20	0.94	1.67	0.72	0.73	0.70	8.60	.014
	month								
	3rd	0.80	1.08	1.33	0.98	0.27	0.59	9.84	.007
	month					3			
	AT	0.80	1.08	1.33	0.98	0.27	0.59	9.84	.007
Walking	BT	27.00	5.89	26.67	9.31	24.93	6.27	1.24	.539
Time		V							
	AT	13.67	2.61	14.93	6.76	13.60	3.64	0.83	.659

For the parameter **Ruka**, significant differences among the groups were found at 1^{st} month (p=0.028), 2^{nd} month (p=0.001), 3^{rd} month (p=0.002) and AT (p=0.002).

For the parameter **Stambha**, significant differences among the groups were found at BT (p=0.028), 1^{st} month (p=0.034), 2^{nd} month (p=0.017), 3^{rd} month (p=0.020) and AT (p=0.020).

For the parameter Toda, significant differences among the groups were found at BT (p=0.001) and 1^{st} month (p=0.004).

For the parameter **Spandan**, significant differences among the groups were found at BT (p=0.001), 1^{st} month (p=0.006), 2^{nd} month (p=0.005), 3^{rd} month (p=0.024) and AT (p=0.024). For the parameter **S.L.R.**, significant differences among the groups were found at BT (p=0.010), 1^{st} month (p=0.001), 2^{nd} month (p=0.034), 3^{rd} month (p=0.018) and AT (p=0.018).

Group B Group C Group A S.L.R Test % imp z-value p-value % imp z-value p-value % imp z-value p-value 1st month 27.9 -3.46 0.001 22.7 -3.16 0.002 43.8 -3.74 <.001 2nd month 48.8 -3.29 0.001 45.5 -3.18 0.001 59.4 -3.58 <.001 3rd month 65.1 -3.22 0.001 61.4 -3.22 0.001 87.5 -3.50 <.001 AT 65.1 -3.22 0.001 61.4 -3.22 0.001 87.5 -3.50 <.001

Table – 5: Improvement Status for S.L.R Test within the groups

In group A significant improvements were found from 1st month to AT with % imp 27.9%, 48.8%, 65.1% and 65.1% at 1st month, 2nd month, 3rd month and AT respectively.

In group B significant improvements were found from 1st month to AT with % imp 22.7%, 45.5%, 61.4% and 61.4% at 1st month, 2nd month, 3rd month and AT respectively.

In group C significant improvements were found from 1st month to AT with % imp 43.8%, 59.4%, 87.5% and 87.5% at 1st month, 2nd month, 3rd month and AT respectively.

Table – 6: Improvement Status for the Parameter Walking Time within the groups

Walking Time	Group A	A		Group B			Group C		
, valking Time		z-value	p-value	% imp	z-value	p-value	% imp	z-value	p-value
AT	49.4	-3.42	0.001	44.0	-3.43	0.001	45.5	-3.43	0.001

For walking time, significant improvements were found at AT with proportion 49.4%, 44% and 45.5% in group A, group B and group C respectively.

Table – 7: Overall Improvement Status

Status	Grou	ір А	Group B		Grou	ір С	chi sq	p-value
Status	No.	%	No.	%	No.	%	cm sq	p varae
Relieved	8	53.3%	1	6.7%	6	40.0%		
(>80%)	0	33.370	1	0.770	0	40.070		
More Improved	2	13.3%	10	66.7%	8	53.3%		
(50% - 80%)	2	13.370	10	00.770	0	33.370		
Less Improved	3	20.0%	1	6.7%	1	6.7%	14.8	0.022
(20% - 49.9%)		20.070	1	0.770	1	0.770		
Not Improved	2	13.3%	3	20.0%	0	0.0%		
(<20%)		13.3/0	3	20.070		0.070		
Total	15	100.0%	15	100.0%	15	100.0%		

Maximum improvement was found in group C (relieved 40%, More improved 53.3%) followed by the group A (relieved 53.3%, more improved 13.3%). The significant difference was observed in proportion of various levels of improvement among the groups (p=0.022)

Discussion

The present work entitled, "ROLE OF SIRA VYADHA- AJMODADI VATAKA IN THE MANAGEMENT OF GRIDHRASI (SCIATICA)" has been framed to undertake a critical, literary, conceptual, clinical, trail drug study to evaluate the efficacy of different therapeutic regimens for the treatment of GRIDHRASI. In *Ayurveda* various herbal compounds are mentioned and advocated for the treatment of Gridhrasi. Presently there is no any specific management for Gridhrasi. So, assessment of efficacy by these drugs and procedure in management of Gridhrasi. The present drug trail was conducted on 45 patients of Gridhrasi. These patients were divided equally in 3 group 'A', 'B', and 'C' i.e. 15 in each group. The trial was conducted for 3 months. Group A (Sira Vyadha): The patient of this group will be treated with sira vyadha. Group B (Ajmodadi Vati): In this group, Ajmodadi vati was given 500mg/BD with lukewarm water for 30 days. Group C (Combined Therapy): In this group, both the therapies were given.

Ajmodadi Vati (Chakradatta 25/51-55).

Each Vati of 500 mg Contains:

Ajmoda	1 part	Chitraka	1 part
Vidanga	1 part	Pippali Mula	1 part
Saindhava Lavana	1 part	Satahva	1 part
Pippali	1 part	Maricha	1 part
Devadaru	1 part	Haritaki	5 part
Vrudhadaru	10 part	Sunthi	10 part
Guda	*		

^{*} = Equal part of the rest of the drug.

Dose: 500 mg/BD in a day with lukewarm water.

SIRAVYADHA - A Procedure

All the registered subjects were in a age group with minimum of 18 years and maximum 60 years. They were further divided into three groups (A, B, C). This study shows that out of 45 patients 15.6% patients were of less than 30 years age groups, 31.1% were of 30-39 years age groups, 40-49 years and >50 years age groups were of 26.6%. This study shows that the maximum number of patients were in age groups of 30-50 years (i.e. 57.7%). Show it can be concluded that the Gridhrasi Roga is a disease of Middle age groups.

Out of 45 patients, maximum number i.e. 64.4% of patients had Vataj-kaphaja Prakriti followed by 22.2% Pittakaphaja Prakriti and 13.3% Vata-Pittaja Prakriti. So it can be concluded that Gridhrasi Roga is more common in Patients having Vata dominance Prakriti that is Vata-Kaphaja and Vata-Pittaja, due to Srotorodha, Srotorodha is a precipitating factor for Gridhrasi Roga. In these patients due to Mandagni, Amarasa found which subsequently leads to srotorodha. In group A: significant improvements were found from 1st month to AT with % imp 16.7%, 28.6%, 57.1% and 57.1% at 1st month, 2nd month, 3rd month and AT respectively. **In group B**: significant improvements were found from 1st month to AT with % imp 23.3%, 27.9%, 46.5% and 46.5% at 1st month, 2^{nd} month, 3^{rd} month and AT respectively. In group C: significant improvements were found from 1^{st} month to AT with % imp 28.6%, 48.6%, 77.1% and 77.1% at 1st month, 2nd month, 3rd month and AT respectively. **Intergroup Comparison**: The comparative observation in all three groups shows that after 1 month of treatment there were mild improvement in all three groups A, B and C. After two-month probability of improvement was 28.6% in group A and 27.9% in group B and 48.6% in group C. After third month probability of improvement was 57.1% in group A, 46.5% in group B and 77.1% in group C. Although all the three groups so improvement after treatment not only in grade of intensity of symptom but also in total number of patients who became symptom free. Percentage improvement is lower in group B (46.5%) than in group A (57.1%) than in group C (77.1%). So, the order of improvement is **Group B < Group A < Group C.** These differences of improvement are may be due to, in Group C combind therapy is given (Siravyadha and Ajamodadi Vataka) these both have Vata Shamaka effect on Ruka. In group A single therapy Siravyadha is given, vitiation of Rakta by Vata Dosha and this should be removed by Siravyadha. In Group B only Ajamodadi Vataka was given, this Vataka has mild Vata Shamaka properties. So, the lesser improvement seen in Group B.

Improvement Status for S.L.R Test within the groups

In group A: significant improvements were found from 1st month to AT with % imp 27.9%, 48.8%, 65.1% and 65.1% at 1st month, 2nd month, 3rd month and AT respectively. In group B: significant improvements were found from 1st month to AT with % imp 22.7%, 45.5%, 61.4% and 61.4% at 1st month, 2nd month, 3rd month and AT respectively. In group C: significant improvements were found from 1st month to AT with % imp 43.8%, 59.4%, 87.5% and 87.5% at 1st month, 2nd month, 3rd month and AT respectively. Intergroup Comparison: The comparative observation in all three groups shows that after 1 month of treatment their improvement was 27.9% in group A, 22.7% in group B and 43.9% in group C. After two-month probability of improvement was 48.8% in group A and 45.5% in group B and 59.4% in group C. Percentage improvement is lower in group B (61.4%) than in group A (65.1%) than in group C (87.5%). So, the order of improvement is Group B < Group A < Group C.

Overall Improvement Status

Maximum improvement was found in group C (relieved 40%, More improved 53.3%) followed by the group A (relieved 53.3%, more improved 13.3%). The significant difference was observed in proportion of various levels of improvement among the groups (p=0.022)

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CONCLUSION

The present clinical trial was planned to develop an Ayurvedic regimen for the management of Gridhrasi by taking Sanshaman Chikitsa along with Sanshodhan Karma. The duration of trial was three months and patients were examined monthly. The present study leads to the following conclusions. Gridhrasi is almost similar to that of Sciatica of modern medicine. Persons of early Praudawastha (middle age group i.e 31-50 yrs) were highly affected by Gridhrasi. Persons with Vata Kaphaj Prakriti were more prone to Gridhrasi (60-67%). Regarding Agni and bowel habit Mandagni was observed and most of the patient were of constipated. Out of 45 Patients Vata Kaphaj type of Gridhrasi was present in 29 (64.4%) patients. Whereas Vata Pittaja type of Gridhrasi was present in 6 (13.3%) patients and Pitta Kaphaj type of Gridhrasi was present in 10 (22.2%) patients. Total 45 patients were registered for the clinical trial which were divided in to three groups, 15 in each group, 'A', 'B' and 'C'. In Group A(Sira Vyadha): The patient of this group treated with sira vyadha. In Group B (Ajmodadi Vati): In this group, Ajmodadi vati was given 500 mg/BD with lukewarm water for 30 days. In Group C (Combined Therapy). In this group, both the therapies were given.

- Therapeutic efficacy of all trial regimens was significant with overall improvement. Maximum improvement was found in group C (relieved 40.0%. more improved 53.3%) followed by group A (relieved 53.3%, more improved 13.3%). The significant difference was observed in proportion of various level of improvement among the group (p=0.022).
- Regarding comparative significance of the regimen in all three groups statistically, maximum significance (93.9%) was observed in group C treated with combined therepy (Sira Vyadha and Ajmodadivati) followed by 73.4% significance observed in group B, and satisfactory in group A (66.6%).
- It is further concluded that similar studied must be undertaken in a large number of cases of the longer duration to confirm the conclusion and its further verification. Thus, this regimen proves a valuable contribution from Ayurveda to whole medical world and ailing humanity.

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